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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/898,019	07/05/2001	Seong-Soon Ahn	IK-022	9281

34610 7590 09/05/2003

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P.O. BOX 221200  
CHANTILLY, VA 20153

EXAMINER
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LEUNG, PHILIP H

ART UNIT	PAPER NUMBER
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3742

16

DATE MAILED: 09/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/898,019

Applicant(s)

AHN, SEONG-SOON

Examiner

Philip H Leung

Art Unit

3742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2003 and 25 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 6-9, 12, 14, 15 and 17-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6-9, 12, 14, 15 and 17-19 is/are allowed.
- 6) ☒ Claim(s) 20-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 30 October 2002 and 13 May 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 13.

- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_

U.S. Patent and Trademark Office  
PTOL-326 (Rev. 04-01)

**Office Action Summary**

Part of Paper No. 16

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**DETAILED ACTION**

1. The specification is objected to because it does not include sufficient description on the claimed limitation "a cooling airflow path between the inlet port and the outlet port defining a substantially straight line therebetween" at lines 5-6 of the newly added claim 20. There is no clear description that the airflow path is "a substantially straight line". As shown in the drawings, the inlet port (suction grill 50) is on the front while the inlet 41 is on the sidewall (partitioning wall 55), therefore the path at the end near the outlet is not really "straight" as claimed.

Clarification and correction are required but no new matter can be introduced.

2. Claims 20-25 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. More specifically, as set forth above, the claimed limitation "a cooling airflow path between the inlet port and the outlet port defining a substantially straight line therebetween" at lines 5-6 of the newly added claim 20 does not have support in the original specification. Furthermore, the drawings show that the airpath does not form a straight line as the inlet and outlet are not located opposite each other, therefore, the limitation is considered as new matter and should be removed. Clarification and correction are required.

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3. Applicant's arguments with respect to claims 20-25 have been considered but are moot in view of the new ground(s) of rejection.

4. **Claims 6-9, 12, 14, 15 and 17-19 are allowed.**

5. The proposed changes to the drawings filed 10/30/2002 and 5/13/2003 have been approved by the Examiner.

6. Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action in order to resolve any informalities remaining therein before the application is passed to issue and to avoid possible delays in the issue process.

7. Effective May 1, 2003, the address for mail to the USPTO is:

**Commissioner for Patents**

**PO Box 1450**


**Alexandria, VA 22313-1450**

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8. Any inquiry concerning any communication from the examiner should be directed to Examiner Leung whose telephone number is (703) 308-1710. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teresa Walberg, can be reached on (703) 308-1327. The fax phone number for this Group is (703) 305-3463.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

  
**PHILIP H. LEUNG**  
**PRIMARY EXAMINER**  
**ART UNIT 3742**

P.Leung/pl  
8-19-03